



Composite sample no.	Arsenic	Cadmium	Copper	Lead	Zinc	Mercury	Aldrin+ Dieldrin	Chlordane	DDT+ DDD+ DDE
C30 (S119,S120,S121,S122)	2	<1	19	6	60	<0.1	<0.1	<0.1	<0.3
C31 (S123,S124,S125,S126)	5	<1	27	7	71	0.1	<0.1	<0.1	<0.3
C32 (S127,S128,S129,S130)	1	<1	39	7	54	<0.1	<0.1	<0.1	<0.3
C33 (S131,S132,S133,S134)	2	<1	94	8	56	<0.1	<0.1	<0.1	<0.3
C34 (S135,S136,S137,S138)	1	<1	13	7	57	<0.1	<0.1	<0.1	<0.3
C35 (S139,S140,S141,S142)	8	<1	14	7	37	0.3	<0.1	<0.1	<0.3
C36 (S143,S144,S145,S146)	1	<1	35	8	57	<0.1	<0.1	<0.1	<0.3
C37 (S147,S148,S149,S150)	3	<1	86	8	64	<0.1	<0.1	<0.1	<0.3
C38 (S151,S152,S153,S154)	2	<1	23	7	62	<0.1	<0.1	<0.1	<0.3
C39 (S155,S156,S157,S158)	2	<1	14	7	42	<0.1	<0.1	<0.1	<0.3
C40 (S159,S160,S161,S162)	2	<1	47	7	53	<0.1	<0.1	<0.1	<0.3
C41 (S163,S164,S165,S166)	3	<1	99	9	63	<0.1	<0.1	<0.1	<0.3
C42 (S167,S168,S169,S170)	3	<1	26	10	69	0.1	<0.1	<0.1	<0.3
C43 (S171,S172,S173,S174)	1	<1	19	7	60	0.1	<0.1	<0.1	<0.3
C44 (S175,S176,S177,S178)	3	<1	25	8	54	<0.1	<0.1	<0.1	<0.3
C45 (S179,S180,S181,S182)	2	<1	92	8	52	<0.1	<0.1	<0.1	<0.3
C46 (S183,S184,S185,S186)	3	<1	47	12	54	0.1	<0.1	<0.1	<0.3
C47 (S187,S188,S189,S190)	3	<1	25	8	55	0.1	<0.1	<0.1	<0.3
C48 (S191,S192,S193,S194)	3	<1	28	8	68	<0.1	<0.1	<0.1	<0.3
C49 (S195,S196,S197,S198)	3	<1	93	8	52	<0.1	<0.1	<0.1	<0.3
C50 (S199,S200,S201,S202)	3	<1	22	8	63	0.1	<0.1	<0.1	<0.3
C51 (S203,S204,S205,S206)	2	<1	31	8	56	0.1	<0.1	<0.1	<0.3
C52 (S207,S208,S209,S210)	3	<1	84	8	47	0.2	<0.1	<0.1	<0.3
C53 (S211,S212,S213,S214)	2	<1	49	8	40	0.1	<0.1	<0.1	<0.3
Mean	>10	<1	58	9	73	<0.1	<0.1	<0.1	<0.3

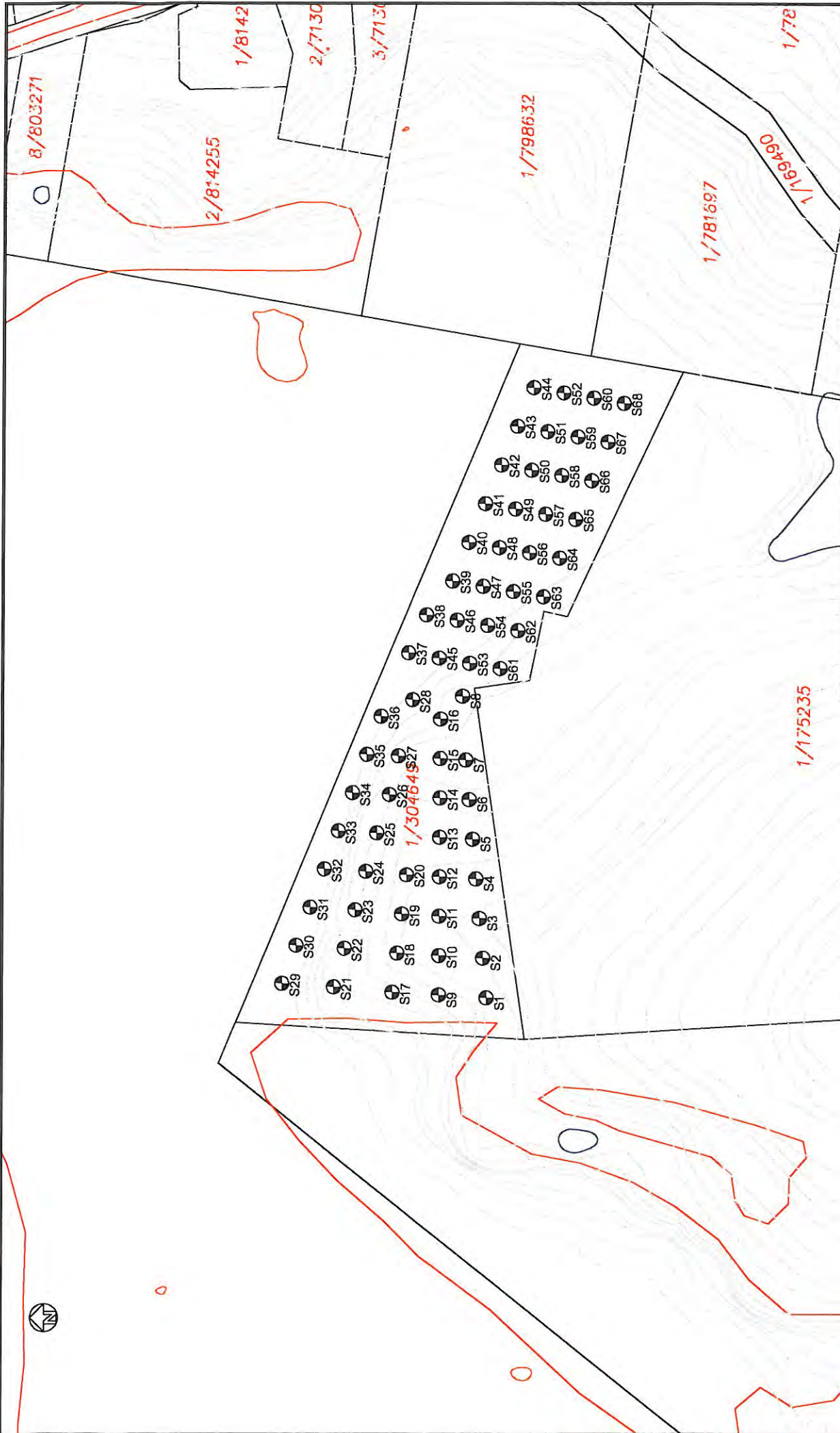
The concentrations of arsenic, cadmium, copper, lead, zinc, mercury and organochlorine compounds were below the adjusted HIL's within all fifty-three (53) of the composite samples analysed.

6.17 Results for Lot 1 DP 304649 (Abernathy)

A summary of the analytical results for Lot 1 DP 304649 are shown in Table 6.17.1 below. The sample locations are shown on Drawing Number GJ0128.1.17.

Table 6.17.1. Summary of analytical results for Lot 1 DP 304649 (mg/kg).

Composite sample no.	Arsenic	Cadmium	Copper	Lead	Zinc	Mercury	Aldrin+ Dieldrin	Chlordane	DDT+ DDD+ DDE
C1 (S1,S2,S3,S4)	3	<1	39	6	65	0.1	<0.1	<0.1	<0.3
C2 (S5,S6,S7,S8)	3	<1	36	6	53	0.1	<0.1	<0.1	<0.3
C3 (S9,S10,S11,S12)	4	<1	32	6	43	0.1	<0.1	<0.1	<0.3
C4 (S13,S14,S15,S16)	8	<1	23	7	30	<0.1	<0.1	<0.1	<0.3
C5 (S17,S18,S19,S20)	1	<1	32	4	42	<0.1	<0.1	<0.1	<0.3
C6 (S21,S22,S23,S24)	6	<1	30	6	34	<0.1	<0.1	<0.1	<0.3
C7 (S25,S26,S27,S28)	13	<1	19	7	28	<0.1	<0.1	<0.1	<0.3
C8 (S29,S30,S31,S32)	7	<1	18	5	23	<0.1	<0.1	<0.1	<0.3
C9 (S33,S34,S35,S36)	14	<1	18	7	34	<0.1	<0.1	<0.1	<0.3
C10 (S37,S38,S39,S40)	6	<1	26	8	44	0.1	<0.1	<0.1	<0.3
C11 (S41,S42,S43,S44)	5	<1	32	8	34	<0.1	<0.1	<0.1	<0.3
C12 (S45,S46,S47,S48)	4	<1	35	6	55	0.1	<0.1	<0.1	<0.3
C13 (S49,S50,S51,S52)	2	<1	27	4	41	<0.1	<0.1	<0.1	<0.3
C14 (S53,S54,S55,S56)	3	2	34	7	78	0.2	<0.1	<0.1	<0.3
C15 (S57,S58,S59,S60)	2	<1	30	6	80	0.1	<0.1	<0.1	<0.3
C16 (S61,S62,S63,S64)	5	<1	15	6	53	0.1	<0.1	<0.1	<0.3
C17 (S65,S66,S67,S68)	2	<1	34	7	83	0.2	<0.1	<0.1	<0.3
Mean	5	<1	28	6	48	<0.1	<0.1	<0.1	<0.3





Gilbert & Sutherland
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PROJECT

METRICON

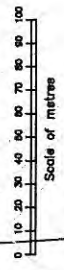
'AREA E' TERRANORA

SOIL CONTAMINATION ASSESSMENT

SCALE AS SHOWN	DRAWN C.M.A.	DRAWING No.
DATE 30/09/03	CHECKED	GJ0128.1.17

FIGURED DIMENSIONS TO BE READ IN PREFERENCE TO SCALING.

APPROVED



The concentrations of arsenic, cadmium, copper, lead, zinc, mercury and organochlorine compounds were below the adjusted HIL's within all seventeen (17) of the composite samples analysed.

The recovery of soil samples, however extensive, can not completely eliminate the possibility that contaminants are present on a site³. However, based on the number of samples recovered and the results of the analyses conducted⁴, we confirm that the sites investigated are free of soil contamination in circular hot spots larger than 25 meters in diameter⁵.

³ Standards Australia. AS 4482.1—1997. Guide to the Sampling and Investigation of Potentially contaminated Soil – Part 1: Non-volatile and Semi-volatile compounds.

⁴ New South Wales Environmental Protection Agency. 1995. Contaminated Sites Sampling Design Guidelines. Sydney South, and New South Wales Environmental Protection Agency. 1997. Guidelines for Assessing Banana Plantation Sites. Chatswood.

⁵ Assuming a circular hot spot at a 95% confidence level.

5. Conclusions and recommendations

The results of this Soil Contamination Assessment confirm that the concentration of agricultural substances within the surface soils of all investigated properties (refer Section 1.1), were below the relevant health investigation levels adopted by NSW EPA. This finding is based on the recovery of 1323 samples from the investigated properties and analysis of the 328 combined representative composite samples.

Twelve (12) composite samples initially analysed exhibited concentrations of arsenic equivalent to or greater than the adjusted HIL of 25mg/kg. These samples were recovered from the surface soils (maximum depth 150mm depth) from the following properties:

- Lot 2 DP 785420 (C2, C3, C12, C13 & C14),
- Lot 1 DP 962558 (C7, C8 & C9),
- Lot 1 DP 225183 (C11),
- Lot 12 DP 534942 (C28) and
- Lot 4 DP 582842 – Site B (C14 & C25)

Analysis of the forty-eight (48) samples that formed these twelve (12) composite samples for arsenic, later confirmed that all forty-eight of the samples were below the HIL of 100mg/kg for arsenic. All other agricultural substances were below the HIL's for all investigated properties.

Based on the required number of samples recovered within the areas of the subject properties used for agriculture, no potential hot spots exceeding an approximate diameter of 25m could be detected. This is based statistically on a 95% confidence level in accordance with the relevant guidelines.

As no contamination hot spots were encountered, no additional sampling or analysis appears to be required. In relation to soil contamination issues, the subject properties are therefore suitable for residential development.



Appendix A. Site history assessment report



**DETAILED SITE HISTORY
FOR "AREA E" TERRANORA
PREPARED FOR GILBERT & SUTHERLAND
MAY 2003**

1.0 INTRODUCTION

This report has been undertaken to provide a detailed site history of various land holdings within the locality referred to as "Area E" Terranora, as part of a comprehensive preliminary site contamination report being prepared by Gilbert & Sutherland, Specialist Soil and Water Scientists.

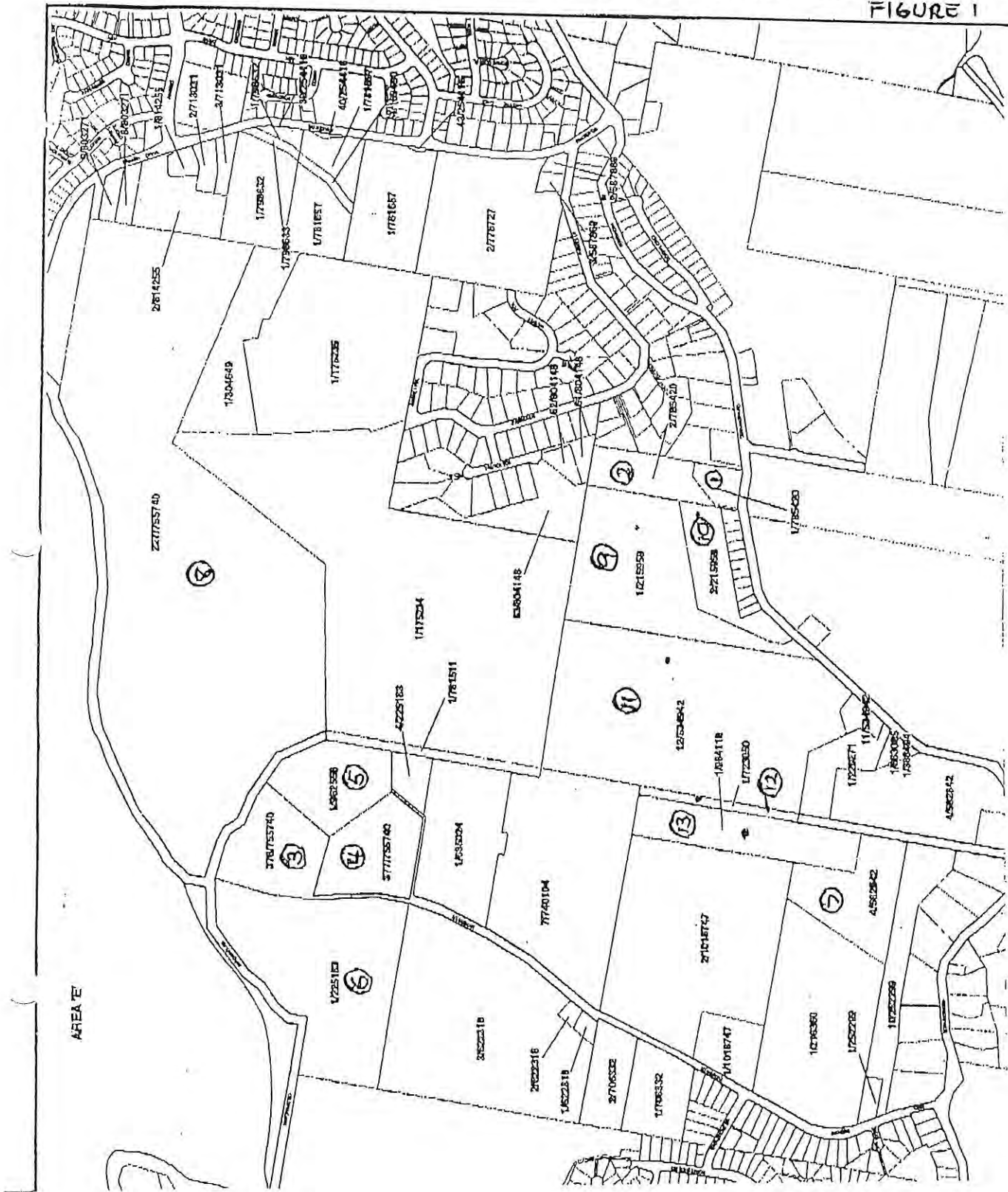
2.0 SITE DETAILS

The site comprises thirteen land holdings owned by various land owners in the Terranora locality. Details of the holdings are as follows:

1. Lot 1 DP 785420, Terranora Road, Terranora (referred to as Property 1);
2. Lot 2 DP 785420, Terranora Road, Terranora (referred to as Property 2);
3. Lot 376 DP 755740, Mahers Lane, Terranora (referred to as Property 3);
4. Lot 375 DP 755740, Mahers Lane, Terranora (referred to as Property 4)
5. Lot 1 DP 962558, Mahers Lane, Terranora (referred to as Property 5);
6. Lot 1 DP 225183, Mahers Lane, Terranora (referred to as Property 6);
7. Lot 4 DP 582842, Terranora Road, Terranora (referred to as Property 7);
8. Lot 227 DP 755740, Fraser Drive, Terranora (referred to as Property 8)
9. Lot 1 DP 215959, Terranora Road, Terranora (referred to as Property 9).
10. Lot 2 DP 215959, Terranora Road, Terranora (referred to as Property 10);
11. Lot 12 DP 534942, Terranora Road, Terranora (referred to as Property 11);
12. Lot 1 DP 723050, Terranora Road, Terranora (referred to as Property 12).
13. Lot 1 DP 984118, Terranora Road, Terranora (referred to as Property 13).

Figure 1 indicates the boundaries and location of the various properties.

FIGURE 1





3.0 SITE HISTORY

The following maps, aerial photography and reports were examined in compiling a site history for the land:

- Topographic Map – Tweed Heads, No. 213A Zone 8, prepared by the Australian Section of the Imperial General Staff – 1935 (location Tweed Shire Library).
- Topographic Map – Tweed Heads, 9641-IV-S prepared by Central Mapping Authority of NSW – 1974 (location Tweed Shire Library).
- Topographic Map – Tweed Heads, 9641-IV-S prepared by Central Mapping Authority of NSW – 1985 (location Jim Glazebrook & Associates Pty Ltd).
- Aerial photography prepared for Master Planning Services Australia Pty Ltd – 1993 (location Jim Glazebrook & Associates Pty Ltd).
- Aerial photography prepared for McLauchlan Surveying – 1999 (location Jim Glazebrook & Associates Pty Ltd).
- Assessment of Soil Chemical Residues and Agricultural Report, prepared by Wilkie Fleming & Associates Pty Ltd, Agricultural & Property Management Consultants, 1994, (location Jim Glazebrook & Associates Pty Ltd).

FINDINGS

Based on the information examined the following is a summary of the use of the land.

1935

- Properties 1 to 7 – scattered timber, non perennial watercourses existing on most holdings.
- Property 8 – medium timber cover, swamp or marsh, watercourse on northern boundary.
- Property 9 – bananas (extent unknown) scattered timber.
- Properties 10, 12 & 13 – scattered timber and non perennial watercourses.
- Property 11 – scattered timber, bananas (extent unknown), possible stockyards.



1974

- Property 1 – cleared land, 3 buildings, dam.
- Property 2 – cleared land, building located on eastern boundary.
- Property 3 – cleared land, scrub on northern boundary, dam.
- Property 4 – cleared land, 2 buildings located in south west corner and 1 building located in north east corner, electricity transmission line running through center of property.
- Property 5 – scrub.
- Property 6 – cleared land, building located at road frontage, scrub located in center of land, scrub and marsh or swamp located on western portion of land together with a large dam.
- Property 7 – cleared land, scattered timber and dam located in north west corner, dam located on northern boundary, building located in center of land.
- Property 8 – scrub, swamp or marsh.
- Property 9 – cleared land, scattered timber, building located at end of access to land, indefinite stream or watercourse running from north west corner to center of the land.
- Property 10 – cleared land.
- Property 11 – cleared land, scattered timber along northern boundary, dams located on northern and western boundaries of land, indefinite stream or watercourse running from dam on northern boundary through center of land. 4 buildings (including large T shaped structure existing on land).
- Property 12 – cleared land.
- Property 13 – scattered timber, indefinite stream or watercourse located on southern boundary.

1985

- Property 1 – cleared land, number of buildings, 2 waterbodies.
- Property 2 – cleared land, building.



- Property 3 – cleared land, building, dam, medium timber located in north east corner of the land.
- Property 4 – cleared land, building located in south east corner.
- Property 5 – cleared land, 4 buildings, medium timber located in north east corner.
- Property 6 – cleared land, medium timber throughout property, 2 buildings located on eastern boundary (road frontage), 2 dams, land subject to inundation located along western and north western boundaries.
- Property 7 – cleared, scattered timber and watercourse located on northern boundary, building located in south west corner.
- Property 8 – cleared land, medium forest located along northern boundary, north eastern corner and central portion of land, watercourse located along boundary perimeter, land subject to inundation along western boundary.
- Property 9 – cleared land, scattered to medium timber located on northern end and north western boundaries.
- Property 10 – cleared land, 2 buildings.
- Property 11 – cleared land, medium timber located in center of land as well as in the north western and north eastern areas of the land, dams located in the north west corner and on the western boundary of the land. Building and dam located on road frontage of land.
- Property 12 – cleared land.
- Property 13 – cleared land, scattered to medium timber on northern boundary.

1993

- Property 1 – scattered timber, mainly cleared land, large building, smaller ancillary structures.
- Property 2 – cleared land, scattered timber, building located on eastern boundary.
- Property 3 – small crops, building located in center of land.
- Property 4 – small crops, building located in south west corner.



- Property 5 – small crops, building located on western boundary.
- Property 6 – small crops predominant, bananas located along northern boundary of land, number of buildings located on eastern portion of land, medium timber located along western and northern boundary of land.
- Property 7 – cleared land, scattered to medium timber throughout property.
- Property 8 – cleared land, scattered to medium timber coverage in north western portion of land.
- Property 9 – majority of property under bananas, building located in western portion of site.
- Property 10 – cleared land.
- Property 11 – predominantly small crops, scattered to medium timber located in central and north west of site.
- Property 12 – predominantly small crops with scattered timber on northern boundary.
- Property 13 – small crops with medium timber on northern boundary.

1994

- Property 1 & 2 – no known crop usage.
- Properties 3 – 5 – small crops – existing crops (ie. 1994) zucchini, sweet potatoes, - past crop usage – tomatoes, peas and beans.
- Property 6 – bananas and small crops – existing crops (ie. 1994) bananas (located in northern sector of land), zucchini, sweet potatoes, - past crop usage – beans.
- Property 7 – grazing.
- Property 8 – no records of crop usage.
- Properties 9 – 13 – existing crops (ie. 1994) bananas and small crops, bananas predominantly located on eastern portion of site (ie. Lot 1 DP 215959) – past crop usage – tomatoes, zucchini, peas, beans and sweet potatoes.



1999

- Property 1 – predominantly cleared, scattered timber, dwelling and associated outbuildings.
- Property 2 – predominantly cleared, scattered timber, shed.
- Property 3 – small crops, scattered timber, building, dam on northern boundary.
- Property 4 – small crops, dwelling associated outbuildings.
- Property 5 – small crops, shed on western boundary, scattered timber on north east boundary, dam on eastern boundary.
- Property 6 – dwelling, associated outbuildings and scattered timber along eastern boundary, northern and central area of land under crops, medium to dense timber and 2 dams and watercourse located in western sector of land.
- Property 7 – scattered to medium timber, with possible crops on western boundary, 3 dams in northern sector of site, central areas of site predominantly cleared, building located on eastern boundary.
- Property 8 – cleared land, scattered to medium timber in western sector.
- Property 9 – predominantly crops, scattered timber, shed.
- Property 10 – dwelling, possible small crops predominant.
- Property 11 – dwelling in south east corner, predominantly crops, scattered timber in northern sector of land, dam in north west corner.
- Property 12 – small crops, scattered timber on northern boundary.
- Property 13 – small crops, cleared land and medium timber located in northern sector of site.

CONCLUSION

Due to the predominant use of the subject land for crop usage it is recommended that appropriate sampling occur on the land to determine if any possible contamination is evident. This is particularly recommended for those areas of the land that have been used for banana plantation purposes. These areas are indicated on the attached plan (see Figure 2).

FIGURE 2



POSSIBLE BANANA PLANTATION USE



**Soil Contamination
Assessment for
'Area E' Properties
Terranora**

**Volume 3 -
Laboratory Results**

Prepared for
Metricon Queensland Pty Ltd

October, 2003

Originating office:

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Telephone 07 5578 9944
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gsrobina@bigpond.com

Also at Kawana and Ballina



CERTIFICATE OF ANALYSIS

CONTACT: MR C BUTLER
CLIENT: GILBERT & SUTHERLAND PTY LTD
ADDRESS:
P O BOX 4115
ROBINA QLD 4230
ORDER No.: GJ0128
PROJECT:

BATCH: EB58264
SUB BATCH: 0
LABORATORY: BRISBANE
DATE RECEIVED: 09/09/2003
DATE COMPLETED: 18/09/2003
SAMPLE TYPE: SOIL
No. of SAMPLES: 70

COMMENTS

Results apply to sample(s) as submitted. Samples as received digested by USEPA method 200.2 (modified) prior to the determination of metals. Results reported on a dry weight basis. LOR's raised for sample 1/30-C14 due to high moisture content (>50%).

NOTES

This is the Final Report and supersedes any preliminary reports with this batch number. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: BRISBANE

Address
32 Shand Street
Stafford QLD 4053
Australia

Phone: 61-7-3243 7222
Fax: 61-7-3243 7218
Email: michael.heery@alsenviro.com

Signatory

LABORATORIES

AUSTRALASIA

Brisbane
Melbourne
Sydney
Newcastle
Auckland

Hong Kong
Singapore
Kuala Lumpur
Bogor
Mumbai

AMERICAS

Vancouver
Santiago
Antofagasta
Lima



NATA Accredited Laboratory Number 825

Site: BRISBANE

This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

Batch: EB58264

Sub Batch: 0

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
			Laboratory I.D.		1	2	3	4	5	6	7	8	9	10
			Date Sampled											
UNIT		LOR	1/17-C1	1/17-C2	1/17-C3	1/17-C4	1/17-C5	1/17-C6	1/17-C7	1/17-C8	1/17-C9	1/17-C10		
EA-055	Moisture Content (dried @ 103°C)	%	10.0	18.6	25.1	30.2	19.0	16.5	13.0	29.4	14.3	18.1		
EG-005T	Arsenic - Total	mg/kg	2	<1	4	3	3	1	5	2	7	2		
EG-005T	Cadmium - Total	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
EG-005T	Copper - Total	mg/kg	227	112	82	36	66	105	125	47	110	122		
EG-005T	Lead - Total	mg/kg	17	14	12	7	8	16	12	8	30	17		
EG-005T	Zinc - Total	mg/kg	93	90	85	82	77	117	106	89	84	118		
EG-035T	Mercury - Total	mg/kg	0.1	0.1	<0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1		

Batch: EB58264
Sub Batch: 0
Date of Issue: 18/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



SAMPLE IDENTIFICATION														
Laboratory I.D.		11	12	13	14	15	16	17	18	19	20			
Date Sampled														
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1/17-C11	1/17-C12	1/17-C13	1/17-C14	1/17-C15	1/17-C16	1/17-C17	1/17-C18	1/17-C19	1/17-C20	
EA-055	Moisture Content (dried @ 103°C)	%	0.1	35.3	21.2	17.9	14.9	39.1	14.0	8.5	12.5	27.2	20.3	
EG-005T	Arsenic - Total	mg/kg	1	3	3	3	2	8	3	4	2	2	6	
EG-005T	Cadmium - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
EG-005T	Copper - Total	mg/kg	1	30	88	63	82	18	55	61	56	49	38	
EG-005T	Lead - Total	mg/kg	1	7	8	10	10	8	14	11	16	7	7	
EG-005T	Zinc - Total	mg/kg	1	85	76	77	73	75	274	157	101	63	66	
EG-035T	Mercury - Total	mg/kg	0.1	<0.1	0.1	0.1	0.1	<0.1	0.1	0.1	0.1	<0.1	0.1	

Batch: EB58264
Sub Batch: 0
Date of Issue: 18/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



METHOD			ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
				Laboratory I.D.		21	22	23	24	25	26	27	28	29	30
				Date Sampled											
			UNIT	LOR	1/17-C21	1/17-C22	1/17-C23	1/17-C24	1/17-C25	1/17-C26	1/17-C27	1/17-C28	1/17-C29	1/17-C30	
EA-055		Moisture Content (dried @ 103°C)	%	0.1	21.3	16.4	38.6	24.4	17.6	22.4	21.3	19.2	18.8	24.9	
EG-005T		Arsenic - Total	mg/kg	1	2	2	5	4	3	2	6	2	2	2	
EG-005T		Cadmium - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
EG-005T		Copper - Total	mg/kg	1	66	25	32	92	54	18	17	76	81	19	
EG-005T		Lead - Total	mg/kg	1	7	9	6	7	11	8	8	8	8	6	
EG-005T		Zinc - Total	mg/kg	1	57	58	75	71	59	57	61	65	57	60	
EG-035T		Mercury - Total	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	

Batch: EB58264
Sub Batch: 0
Date of Issue: 18/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



SAMPLE IDENTIFICATION														
Laboratory I.D.		31	32	33	34	35	36	37	38	39	40			
Date Sampled														
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1/17-C31	1/17-C32	1/17-C33	1/17-C34	1/17-C35	1/17-C36	1/17-C37	1/17-C38	1/17-C39	1/17-C40	
EA-055	Moisture Content (dried @ 103°C)	%	0.1	25.2	19.1	16.7	25.1	22.9	16.7	16.0	36.7	29.5	11.8	
EG-005T	Arsenic - Total	mg/kg	1	5	1	2	1	8	1	3	2	2	2	
EG-005T	Cadmium - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
EG-005T	Copper - Total	mg/kg	1	27	39	94	13	14	35	86	23	14	47	
EG-005T	Lead - Total	mg/kg	1	7	7	8	7	7	8	8	7	7	7	
EG-005T	Zinc - Total	mg/kg	1	71	54	56	57	37	57	64	62	42	53	
EG-035T	Mercury - Total	mg/kg	0.1	0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	

Batch: EB58264

Sub Batch: 0

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION															
			Laboratory I.D.		41	42	43	44	45	46	47	48	49	50				
			Date Sampled	LOR	UNIT	1/17-C41	1/17-C42	1/17-C43	1/17-C44	1/17-C45	1/17-C46	1/17-C47	1/17-C48	1/17-C49	1/17-C50			
EA-055	Moisture Content (dried @ 103°C)																	
EG-005T	Arsenic - Total		0.1	%	11.0	45.4	35.1	14.8	15.7	42.2	29.0	18.3	19.1	33.7				
EG-005T	Cadmium - Total		1	mg/kg	3	3	1	3	2	3	3	3	3	3	3			
EG-005T	Copper - Total		1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
EG-005T	Lead - Total		1	mg/kg	99	26	19	25	92	47	25	28	93	22	22			
EG-005T	Zinc - Total		1	mg/kg	9	10	7	8	8	12	8	8	8	8	8			
EG-005T	Mercury - Total		1	mg/kg	63	69	60	54	52	54	55	68	52	63	63			
EG-035T			0.1	mg/kg	<0.1	0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1			0.1

Sub Batch:
Date of Issue:
Client:
Client Reference:

CERTIFICATE OF ANALYSIS



METHOD	ANALYSIS DESCRIPTION	Laboratory I.D.		51	52	53	54	55	1/30-C1	1/30-C2	1/30-C3	1/30-C4	1/30-C5	1/30-C6	1/30-C7
		UNIT	LOR												
EA-055	Moisture Content (dried @ 103°C)	%	0.1	20.6	16.1	17.4	19.0	18.5	14.6	13.1	17.6	15.4	11.1		
EG-005T	Arsenic - Total	mg/kg	1	2	3	2	3	3	4	8	10	6	13		
EG-005T	Cadmium - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
EG-005T	Copper - Total	mg/kg	1	31	84	49	39	36	32	23	32	30	19		
EG-005T	Lead - Total	mg/kg	1	8	8	8	6	6	6	7	4	6	7		
EG-005T	Zinc - Total	mg/kg	1	56	47	40	65	53	43	30	42	34	28		
EG-035T	Mercury - Total	mg/kg	0.1	0.2	0.1	0.2	0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1		

Batch:

EB58264

Sub Batch:

0

Date of Issue:

18/09/2003

Client:

GILBERT & SUTHERLAND PTY LTD

Client Reference:

QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION									
			Laboratory I.D.	200	201	300	301	400	401	500	501	
		Date Sampled										
			UNIT	LOR	Inorg 1 LCS % Rec	Method Blank 2	Inorg 2 LCS % Rec	Method Blank 3	Inorg 3 LCS % Rec	Method Blank 4	Inorg 4 LCS % Rec	
CHECKS AND SPIKES												
EA-055		Moisture Content (dried @ 103°C)	%	0.1								
EG-005T		Arsenic - Total	mg/kg	1	106%	<1	101%	<1	98.0%	<1	99.0%	
EG-005T		Cadmium - Total	mg/kg	1	101%	<1	100%	<1	97.0%	<1	101%	
EG-005T		Copper - Total	mg/kg	1	108%	<1	105%	<1	101%	<1	103%	
EG-005T		Lead - Total	mg/kg	1	101%	<1	98.0%	<1	96.0%	<1	100%	
EG-005T		Zinc - Total	mg/kg	1	106%	<1	104%	<1	102%	<1	101%	
EG-035T		Mercury - Total	mg/kg	0.1	95.0%	<0.1	94.0%	<0.1	92.0%	<0.1	113%	

Batch: EB58264
Sub Batch: 1
Date of Issue: 18/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
			Laboratory I.D.		1	2	3	4	5	6	7	8	9	10
			Date Sampled		1/17-C1	1/17-C2	1/17-C3	1/17-C4	1/17-C5	1/17-C6	1/17-C7	1/17-C8	1/17-C9	1/17-C10
UNIT		LOR	%	0.1	10.0	18.6	25.1	30.2	19.0	16.5	13.0	29.4	14.3	18.1
EA-055	Moisture Content (dried @ 103°C)													
EP-068A-SS	ORGANOCHLORINE PESTICIDES													
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	HCB	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES													
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Monocrotophosph	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Batch: EB58264

Sub Batch: 1

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION									
			Laboratory I.D.	21	22	23	24	25	26	27	28	29
			Date Sampled	1/17-C21	1/17-C22	1/17-C23	1/17-C24	1/17-C25	1/17-C26	1/17-C27	1/17-C28	1/17-C29
		UNIT	LOR									
EA-055		%	0.1	21.3	16.4	38.6	24.4	17.6	22.4	21.3	19.2	18.8
EP-068A-SS	Moisture Content (dried @ 103°C)											
ORGANOCHLORINE PESTICIDES												
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	HCB	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ORGANOPHOSPHORUS PESTICIDES												
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Monocrotophosph	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Batch: EB58264

Sub Batch: 1

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



SAMPLE IDENTIFICATION													
Laboratory I.D.		21	22	23	24	25	26	27	28	29	30		
Date Sampled													
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1/17-C21	1/17-C22	1/17-C23	1/17-C24	1/17-C25	1/17-C26	1/17-C27	1/17-C28	1/17-C29	1/17-C30
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE												
EP-068S-SS	Dibromo-DDE	%	1	87	88	79	87	87	78	86	86	88	90
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS	DEF	%	1	87	81	78	80	84	75	82	83	83	83

Batch:

EB58264

Sub Batch:

1

Date of Issue:

18/09/2003

Client:

GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



Laboratory I.D.		SAMPLE IDENTIFICATION											
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	31	32	33	34	35	36	37	38	39	40
EA-055	Moisture Content (dried @ 103°C)	%	0.1	1/17-C31	1/17-C32	1/17-C33	1/17-C34	1/17-C35	1/17-C36	1/17-C37	1/17-C38	1/17-C39	1/17-C40
EP-068A-SS	ORGANOCHLORINE PESTICIDES												
EP-068A-SS	alpha-BHC	mg/kg	0.05	25.2	19.1	16.7	25.1	22.9	16.7	16.0	36.7	29.5	11.8
EP-068A-SS	HCb	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES												
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Monocrotophos	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	0.12	<0.05	<0.05	0.07
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.11	<0.05	<0.05	<0.05

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Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
			Laboratory I.D.		31	32	33	34	35	36	37	38	39	40
			Date Sampled											
		UNIT	LOR	1/17-C31	1/17-C32	1/17-C33	1/17-C34	1/17-C35	1/17-C36	1/17-C37	1/17-C38	1/17-C39	1/17-C40	
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-058B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE													
EP-068S-SS	Dibromo-DDE	%	1	85	90	95	89	77	84	101	77	85	103	
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE													
EP-068T-SS	DEF	%	1	84	83	85	82	78	80	83	77	83	97	

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CERTIFICATE OF ANALYSIS



			SAMPLE IDENTIFICATION										
Laboratory I.D.			41	42	43	44	45	46	47	48	49	50	
Date Sampled													
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1/17-C41	1/17-C42	1/17-C43	1/17-C44	1/17-C45	1/17-C46	1/17-C47	1/17-C48	1/17-C49	1/17-C50
		%	0.1	11.0	45.4	35.1	14.8	15.7	42.2	29.0	18.3	19.1	33.7
EA-055	Moisture Content (dried @ 103°C)												
EP-068A-SS	ORGANOCHLORINE PESTICIDES												
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	HCB	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES												
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Monocrotophos	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	0.33	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	<0.05	0.05	<0.05	<0.05
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

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METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
			Laboratory I.D.		41	42	43	44	45	46	47	48	49	50
			Date Sampled											
			UNIT	LOR	1/17-C41	1/17-C42	1/17-C43	1/17-C44	1/17-C45	1/17-C46	1/17-C47	1/17-C48	1/17-C49	1/17-C50
EP-068B-SS		Plirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS		Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068S-SS		ORGANOCHLORINE PESTICIDE SURROGATE												
EP-068S-SS		Dibromo-DDE	%	1	101	96	92	86	96	89	96	92	93	88
EP-068T-SS		ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS		DEF	%	1	90	86	86	83	85	82	90	86	82	83

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METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
			Laboratory I.D.		51	52	53	54	55	56	57	58	59	60
			Date Sampled		1/17-C51	1/17-C52	1/17-C53	1/30-C1	1/30-C2	1/30-C3	1/30-C4	1/30-C5	1/30-C6	1/30-C7
UNIT	LOR													
EA-055	Moisture Content (dried @ 103°C)	%	0.1	20.6	16.1	17.4	19.0	18.5	14.6	13.1	17.6	15.4	11.1	
EP-068A-SS	ORGANOCHLORINE PESTICIDES													
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	HCb	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Heptachlor epoxida	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-062A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	DDE	mg/kg	0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
EP-068A-SS	Endrin kelone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES													
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Monocrotophos	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.05	0.07	0.25	
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

Batch: EB58264

Sub Batch: 1

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



		SAMPLE IDENTIFICATION											
		Laboratory I.D.	51	52	53	54	55	56	57	58	59	60	
		Date Sampled											
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1/17-C51	1/17-C52	1/17-C53	1/30-C1	1/30-C2	1/30-C3	1/30-C4	1/30-C5	1/30-C6	1/30-C7
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE												
EP-068S-SS	Dibromo-DDE	%	1	90	88	94	88	90	94	96	90	86	94
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS	DEF	%	1	86	80	87	85	84	85	87	86	83	88

Batch: EB58264

Sub Batch: 1

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



SAMPLE IDENTIFICATION													
Laboratory I.D.		61	62	63	64	65	66	67	68	69	70		
Date Sampled													
UNIT		LOR											
METHOD	ANALYSIS DESCRIPTION		1/30-C8	1/30-C9	1/30-C10	1/30-C11	1/30-C12	1/30-C13	1/30-C14	1/30-C15	1/30-C16	1/30-C17	
EA-055	Moisture Content (dried @ 103°C)	%	9.8	13.1	30.0	29.5	35.0	44.4	51.5	45.0	30.6	47.1	
EP-068A-SS	ORGANOCHLORINE PESTICIDES												
EP-068A-SS	alpha-BHC	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	HCB	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	
EP-068A-SS	delta-BHC	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Heptachlor	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Aldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Heptachlor epoxide	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Chlordane - trans	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Endosulfan 1	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Chlordane - cis	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Dieldrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	DDE	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Endrin	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Endosulfan 2	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	DDD	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Endrin aldehyde	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Endosulfan sulfate	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	DDT	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	
EP-068A-SS	Endrin ketone	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068A-SS	Methoxychlor	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES												
EP-068B-SS	Dichlorvos	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Demeton-S-methyl	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Monocrotophos	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	
EP-068B-SS	Dimethoate	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Diazinon	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Parathion-methyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	
EP-068B-SS	Malathion	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Fenthion	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Chlorpyrifos	mg/kg	0.09	0.21	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	
EP-068B-SS	Parathion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	

Batch: EB58264

Sub Batch: 1

Date of issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



		SAMPLE IDENTIFICATION									
Laboratory I.D.		61	62	63	64	65	66	67	68	69	70
Date Sampled		1/30-C8	1/30-C9	1/30-C10	1/30-C11	1/30-C12	1/30-C13	1/30-C14	1/30-C15	1/30-C16	1/30-C17
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR								
EP-068B-SS	Plimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE										
EP-068S-SS	Dibromo-DDE	%	1	82	85	82	76	80	77	76	74
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE										
EP-068T-SS	DEF	%	1	77	78	77	74	77	79	75	74



Batch: EB58264
Sub Batch: 1
Date of Issue: 18/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION												
			Laboratory I.D.		200	406	407	300	506	507	400	606	607	500	
			Date Sampled												
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	Method Blank 1	OCOPS1442 SCS % Rec	OCOPS1442 DCS % Rec	Method Blank 2	OCOPS1443 SCS % Rec	OCOPS1443 DCS % Rec	OCOPS1443	Method Blank 3	OCOPS1444 SCS % Rec	OCOPS1444 DCS % Rec	Method Blank 4	
CHECKS AND SPIKES															
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	81.6%	83.6%	<0.05	83.6%	86.5%	<0.05	<0.05	87.6%	89.5%	<0.05	
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	68.1%	71.5%	<0.2	104%	109%	<0.2	<0.2	92.4%	91.0%	<0.2	
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	77.9%	76.4%	<0.05	62.6%	68.5%	<0.05	<0.05	67.7%	72.9%	<0.05	
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	-----	-----	<0.05	-----	-----	<0.05	<0.05	-----	----	<0.05	
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	81.2%	81.4%	<0.05	83.8%	84.5%	<0.05	<0.05	88.5%	89.5%	<0.05	
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	80.7%	80.2%	<0.05	87.5%	87.8%	<0.05	<0.05	89.9%	93.6%	<0.05	
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	67.2%	67.8%	<0.05	77.2%	89.6%	<0.05	<0.05	88.7%	81.1%	<0.05	
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	77.0%	80.1%	<0.05	87.9%	90.8%	<0.05	<0.05	90.5%	90.4%	<0.05	
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	71.8%	70.7%	<0.05	91.3%	88.8%	<0.05	<0.05	91.4%	94.7%	<0.05	
EP-068B-SS	Carbophenathion	mg/kg	0.05	<0.05	67.0%	66.8%	<0.05	84.1%	88.4%	<0.05	<0.05	93.1%	93.8%	<0.05	
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	73.8%	70.2%	<0.05	89.4%	81.9%	<0.05	<0.05	105%	93.2%	<0.05	
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE														
EP-068S-SS	Dibromo-DDE	%	1	72	74	74	87	78	84	80	80	86	88	66	
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE														
EP-068T-SS	DEF	%	1	72	74	75	85	80	86	80	80	85	86	65	

Batch: EB58264

Sub Batch: 1

Date of Issue: 18/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	Laboratory I.D.		SAMPLE IDENTIFICATION						CHECKS AND SPIKES						
			Date Sampled	LOR	706	707	OCOPS1445 SCS % Rec	OCOPS1445 DCS % Rec									
					UNIT												
EA-055	Moisture Content (dried @ 103°C)		%	0.1	----	----											
EP-068A-SS	ORGANOCHLORINE PESTICIDES																
EP-068A-SS	alpha-BHC		mg/kg	0.05	71.7%	68.8%											
EP-068A-SS	HCB		mg/kg	0.05	72.2%	71.9%											
EP-068A-SS	beta-BHC & gamma-BHC		mg/kg	0.1	83.2%	83.7%											
EP-068A-SS	delta-BHC		mg/kg	0.05	71.0%	68.2%											
EP-068A-SS	Heptachlor		mg/kg	0.05	74.4%	72.2%											
EP-068A-SS	Aldrin		mg/kg	0.05	77.2%	73.2%											
EP-068A-SS	Heptachlor epoxide		mg/kg	0.05	70.6%	67.6%											
EP-068A-SS	Chlordane - trans		mg/kg	0.05	71.2%	70.5%											
EP-068A-SS	Endosulfan 1		mg/kg	0.05	73.7%	71.4%											
EP-068A-SS	Chlordane - cis		mg/kg	0.05	72.3%	69.4%											
EP-068A-SS	Dieldrin		mg/kg	0.05	69.8%	63.4%											
EP-068A-SS	DDE		mg/kg	0.05	73.8%	71.3%											
EP-068A-SS	Endrin		mg/kg	0.05	70.3%	70.2%											
EP-068A-SS	Endosulfan 2		mg/kg	0.05	70.4%	72.1%											
EP-068A-SS	DDD		mg/kg	0.05	70.8%	68.3%											
EP-068A-SS	Endrin aldehyde		mg/kg	0.05	85.4%	87.2%											
EP-068A-SS	Endosulfan sulfate		mg/kg	0.05	72.4%	69.8%											
EP-068A-SS	DDT		mg/kg	0.2	76.2%	73.6%											
EP-068A-SS	Endrin ketone		mg/kg	0.05	71.6%	70.1%											
EP-068A-SS	Methoxychlor		mg/kg	0.2	74.1%	71.9%											
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES																
EP-068B-SS	Dichlorvos		mg/kg	0.05	74.2%	70.6%											
EP-068B-SS	Demeton-S-methyl		mg/kg	0.05	62.6%	64.9%											
EP-068B-SS	Monocrotophos		mg/kg	0.2	60.0%	52.5%											
EP-068B-SS	Dimethoate		mg/kg	0.05	78.6%	71.5%											
EP-068B-SS	Diazinon		mg/kg	0.05	64.6%	62.1%											
EP-068B-SS	Chlorpyrifos-methyl		mg/kg	0.05	72.7%	69.9%											
EP-068B-SS	Parathion-methyl		mg/kg	0.2	69.3%	63.0%											
EP-068B-SS	Malathion		mg/kg	0.05	72.1%	68.8%											
EP-068B-SS	Fenthion		mg/kg	0.05	68.5%	61.0%											

Batch: EB58264
Sub Batch: 1
Date of Issue: 18/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

QUALITY CONTROL REPORT



METHOD			ANALYSIS DESCRIPTION		Laboratory I.D.		SAMPLE IDENTIFICATION						
					Date Sampled		706	707					
					UNIT	LOR	OCOPS1445 SCS % Rec	OCOPS1445 DCS % Rec	CHECKS AND SPIKES				
EP-068B-SS	Chlorpyrifos	mg/kg			0.05		71.2%	69.0%					
EP-068B-SS	Parathion	mg/kg			0.2		71.9%	69.2%					
EP-068B-SS	Pirimphos-ethyl	mg/kg			0.05		48.4%	49.8%					
EP-068B-SS	Chlorfenvinphos E	mg/kg			0.05		----	----					
EP-068B-SS	Chlorfenvinphos Z	mg/kg			0.05		69.4%	65.3%					
EP-068B-SS	Bromophos-ethyl	mg/kg			0.05		73.3%	70.2%					
EP-068B-SS	Fenamiphos	mg/kg			0.05		64.5%	55.6%					
EP-068B-SS	Prothiofos	mg/kg			0.05		73.6%	71.1%					
EP-068B-SS	Ethion	mg/kg			0.05		73.4%	70.1%					
EP-068B-SS	Carbophenothion	mg/kg			0.05		72.7%	68.4%					
EP-068B-SS	Azinphos-methyl	mg/kg			0.05		70.4%	58.0%					
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE												
EP-068S-SS	Dibromo-DDE	%			1		70	66					
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS	DEF	%			1		75	74					



ORGANICS QUALITY CONTROL REPORT

BATCH No. : EB58264

DATE BATCH RECEIVED : 09/09/03

CLIENT : Gilbert & Sutherland Pty Ltd

DATE BATCH COMPLETED : 18/09/03

Where applicable, internal standards are added to sample extracts prior to instrumental analysis.

Absolute peak areas and retention times fall within the criteria specified in the individual methods.

Method Code	Test	Matrix	Method Reference		QC Lot Number	Date Samples Extracted	Date Samples Analysed
			Extraction	Analysis			
EP-068	Pesticides	Soil	Tumbler	USEPA 8270B	OCOPS1442	16/09/03	16/09/03
					OCOPS1443	16/09/03	16/09/03
					OCOPS1444	16/09/03	16/09/03
					OCOPS1445	16/09/03	16/09/03

BATCH QUALITY CONTROL

ALS EP-068 : PESTICIDES

QC LOT No. : OCOPS1442
MATRIX: Soil

ANALYST: K. HEGARTY

COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Conc	DCS Conc	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Low	High	%
EP-068A : ORGANOCHLORINE PESTICIDES									
a-BHC	<LOR	0.25	0.17	0.17	68	1	61	109	20
HCB	<LOR	0.25	0.18	0.18	73	1	61	111	20
b- & g-BHC	<LOR	0.50	0.46	0.47	92	3	66	113	20
d-BHC	<LOR	0.25	0.19	0.19	75	0	63	108	20
Heptachlor	<LOR	0.25	0.18	0.18	71	3	67	102	20
Aldrin	<LOR	0.25	0.21	0.21	83	2	61	107	20
Heptachlor epoxide	<LOR	0.25	0.19	0.19	75	1	63	103	20
trans-Chlordane	<LOR	0.25	0.20	0.20	78	0	60	104	20
Endosulfan 1	<LOR	0.25	0.21	0.21	85	1	65	115	20
cis-Chlordane	<LOR	0.25	0.19	0.19	76	2	61	102	20
Dieldrin	<LOR	0.25	0.20	0.19	77	2	63	112	20
DDE	<LOR	0.25	0.17	0.17	69	2	66	104	20
Endrin	<LOR	0.25	0.18	0.18	72	3	1	150	20
Endosulfan 2	<LOR	0.25	0.20	0.19	79	4	71	108	20
DDD	<LOR	0.25	0.20	0.20	79	3	65	108	20
Endrin aldehyde	<LOR	0.25	0.27	0.23	99	14	47	125	20
Endosulfan sulfate	<LOR	0.25	0.20	0.20	80	1	63	109	20
DDT	<LOR	0.25	0.18	0.17	69	6	60	115	20
Endrin ketone	<LOR	0.25	0.20	0.20	80	1	42	140	20
Methoxychlor	<LOR	0.25	0.18	0.17	70	2	61	113	20
EP-068B : ORGANOPHOSPHORUS PESTICIDES									
Dichlorvos	<LOR	0.25	0.21	0.20	81	5	62	101	20
Demeton-s-methyl	<LOR	0.25	0.20	0.20	80	4	44	111	20
Monocrotophos	<LOR	0.25	0.27	0.25	104	6	36	117	20
Dimethoate	<LOR	0.25	0.18	0.18	71	1	62	110	20
Diazinon	<LOR	0.25	0.20	0.20	80	4	61	103	20
Chlorpyrifos methyl	<LOR	0.25	0.18	0.18	74	0	70	102	20
Parathion methyl	<LOR	0.25	0.17	0.17	68	2	60	105	20
Malathion	<LOR	0.25	0.23	0.22	89	2	62	107	20
Fenthion	<LOR	0.25	0.19	0.19	77	2	60	100	20
Chlorpyrifos	<LOR	0.25	0.20	0.21	83	2	70	106	20
Parathion	<LOR	0.25	0.17	0.18	70	5	48	118	20
Pirimiphos ethyl	<LOR	0.25	0.19	0.19	77	2	58	98	20
Chlorfenvinphos E	<LOR	0.25	N/A	N/A	N/A		--	--	
Chlorfenvinphos Z	<LOR	0.25	0.20	0.20	81	0	60	122	20
Bromophos ethyl	<LOR	0.25	0.20	0.20	80	1	66	104	20
Fenamiphos	<LOR	0.25	0.17	0.17	68	1	57	101	20
Prothiofos	<LOR	0.25	0.19	0.20	79	4	65	101	20
Ethion	<LOR	0.25	0.18	0.18	71	2	62	107	20
Carbofenthion	<LOR	0.25	0.17	0.17	67	0	64	102	20
Azinphos methyl	<LOR	0.25	0.18	0.18	72	5	42	112	20
EP-068C : TRIAZINE PESTICIDES									
Simazine	<LOR	0.25	0.24	0.23	94	5	1	140	20
Atrazine	<LOR	0.25	0.18	0.19	75	3	65	109	20
EP-068D : SYNTHETIC PYRETHROIDS									
Cypermethrins	<LOR	0.25	0.21	0.21	83	2	63	119	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-068 : PESTICIDES

QC LOT No. : OCOPS1443
MATRIX: Soil

ANALYST: K. HEGARTY

COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
	mg/kg	mg/kg	SCS Conc	DCS Conc	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Low	High	%
EP-068A : ORGANOCHLORINE PESTICIDES									
a-BHC	<LOR	0.25	0.19	0.21	82	10	61	109	20
HCB	<LOR	0.25	0.21	0.22	86	8	61	111	20
b- & g-BHC	<LOR	0.50	0.42	0.42	84	1	66	113	20
d-BHC	<LOR	0.25	0.21	0.22	84	5	63	108	20
Heptachlor	<LOR	0.25	0.22	0.22	88	4	67	102	20
Aldrin	<LOR	0.25	0.23	0.24	93	3	61	107	20
Heptachlor epoxide	<LOR	0.25	0.21	0.21	85	2	63	103	20
trans-Chlordane	<LOR	0.25	0.21	0.22	86	6	60	104	20
Endosulfan 1	<LOR	0.25	0.23	0.22	90	2	65	115	20
cis-Chlordane	<LOR	0.25	0.22	0.22	87	1	61	102	20
Dieldrin	<LOR	0.25	0.22	0.22	88	0	63	112	20
DDE	<LOR	0.25	0.22	0.22	88	1	66	104	20
Endrin	<LOR	0.25	0.22	0.20	85	8	1	150	20
Endosulfan 2	<LOR	0.25	0.22	0.21	87	4	71	108	20
DDD	<LOR	0.25	0.22	0.22	87	0	65	108	20
Endrin aldehyde	<LOR	0.25	0.21	0.22	85	6	47	125	20
Endosulfan sulfate	<LOR	0.25	0.21	0.22	86	5	63	109	20
DDT	<LOR	0.25	0.22	0.23	89	5	60	115	20
Endrin ketone	<LOR	0.25	0.22	0.22	86	0	42	140	20
Methoxychlor	<LOR	0.25	0.22	0.23	89	3	61	113	20
EP-068B : ORGANOPHOSPHORUS PESTICIDES									
Dichlorvos	<LOR	0.25	0.23	0.23	91	1	62	101	20
Demeton-s-methyl	<LOR	0.25	0.17	0.21	76	22 *	44	111	20
Monocrotophos	<LOR	0.25	0.17	0.15	63	15	36	117	20
Dimethoate	<LOR	0.25	0.20	0.20	81	1	62	110	20
Diazinon	<LOR	0.25	0.18	0.21	78	16	61	103	20
Chlorpyrifos methyl	<LOR	0.25	0.21	0.22	86	3	70	102	20
Parathion methyl	<LOR	0.25	0.20	0.20	80	2	60	105	20
Malathion	<LOR	0.25	0.21	0.22	88	4	62	107	20
Fenthion	<LOR	0.25	0.20	0.22	83	9	60	100	20
Chlorpyrifos	<LOR	0.25	0.21	0.22	85	3	70	106	20
Parathion	<LOR	0.25	0.26	0.27	106	6	48	118	20
Pirimiphos ethyl	<LOR	0.25	0.16	0.17	66	9	58	98	20
Chlorfenvinphos E	<LOR	0.25	N/A	N/A	N/A		--	--	
Chlorfenvinphos Z	<LOR	0.25	0.21	0.21	84	1	60	122	20
Bromophos ethyl	<LOR	0.25	0.22	0.22	88	0	66	104	20
Fenamiphos	<LOR	0.25	0.19	0.22	83	15	57	101	20
Prothiofos	<LOR	0.25	0.22	0.23	89	3	65	101	20
Ethion	<LOR	0.25	0.23	0.22	90	3	62	107	20
Carbofenthion	<LOR	0.25	0.21	0.22	86	5	64	102	20
Azinphos methyl	<LOR	0.25	0.22	0.20	86	9	42	112	20
EP-068C : TRIAZINE PESTICIDES									
Simazine	<LOR	0.25	0.13	0.11	49	14	1	140	20
Atrazine	<LOR	0.25	0.19	0.16	70	14	65	109	20
EP-068D : SYNTHETIC PYRETHROIDS									
Cypermethrins	<LOR	0.25	0.23	0.23	92	1	63	119	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-068 : PESTICIDES

QC LOT No. : OCOPS1444
MATRIX: Soil

ANALYST: K. HEGARTY

COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Conc	DCS Conc	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Low	High	%
EP-068A : ORGANOCHLORINE PESTICIDES									
a-BHC	<LOR	0.25	0.21	0.21	84	0	61	109	20
HCb	<LOR	0.25	0.22	0.21	86	4	61	111	20
b- & g-BHC	<LOR	0.50	0.42	0.42	84	0	66	113	20
d-BHC	<LOR	0.25	0.22	0.22	87	1	63	108	20
Heptachlor	<LOR	0.25	0.23	0.23	92	0	67	102	20
Aldrin	<LOR	0.25	0.22	0.22	87	2	61	107	20
Heptachlor epoxide	<LOR	0.25	0.23	0.22	90	2	63	103	20
trans-Chlordane	<LOR	0.25	0.22	0.23	90	4	60	104	20
Endosulfan 1	<LOR	0.25	0.23	0.23	94	0	65	115	20
cis-Chlordane	<LOR	0.25	0.22	0.23	90	2	61	102	20
Dieldrin	<LOR	0.25	0.22	0.21	87	5	63	112	20
DDE	<LOR	0.25	0.22	0.22	89	1	66	104	20
Endrin	<LOR	0.25	0.19	0.22	83	12	1	150	20
Endosulfan 2	<LOR	0.25	0.22	0.23	90	1	71	108	20
DDD	<LOR	0.25	0.22	0.23	90	4	65	108	20
Endrin aldehyde	<LOR	0.25	0.24	0.24	96	1	47	125	20
Endosulfan sulfate	<LOR	0.25	0.23	0.23	91	0	63	109	20
DDT	<LOR	0.25	0.23	0.24	94	3	60	115	20
Endrin ketone	<LOR	0.25	0.21	0.22	87	6	42	140	20
Methoxychlor	<LOR	0.25	0.23	0.23	92	2	61	113	20
EP-068B : ORGANOPHOSPHORUS PESTICIDES									
Dichlorvos	<LOR	0.25	0.24	0.21	91	12	62	101	20
Demeton-s-methyl	<LOR	0.25	0.22	0.17	77	24 *	44	111	20
Monocrotophos	<LOR	0.25	0.19	0.18	74	5	36	117	20
Dimethoate	<LOR	0.25	0.16	0.18	70	11	62	110	20
Diazinon	<LOR	0.25	0.18	0.18	72	1	61	103	20
Chlorpyrifos methyl	<LOR	0.25	0.23	0.22	90	1	70	102	20
Parathion methyl	<LOR	0.25	0.22	0.22	89	1	60	105	20
Malathion	<LOR	0.25	0.23	0.23	93	2	62	107	20
Fenthion	<LOR	0.25	0.23	0.22	88	5	60	100	20
Chlorpyrifos	<LOR	0.25	0.22	0.22	89	2	70	106	20
Parathion	<LOR	0.25	0.23	0.23	92	2	48	118	20
Pirimiphos ethyl	<LOR	0.25	0.17	0.18	70	7	58	98	20
Chlorfenvinphos E	<LOR	0.25	N/A	N/A	N/A		--	--	
Chlorfenvinphos Z	<LOR	0.25	0.22	0.22	89	1	60	122	20
Bromophos ethyl	<LOR	0.25	0.22	0.23	92	4	66	104	20
Fenamiphos	<LOR	0.25	0.22	0.20	85	9	57	101	20
Prothiofos	<LOR	0.25	0.23	0.23	90	0	65	101	20
Ethion	<LOR	0.25	0.23	0.24	93	3	62	107	20
Carbofenthion	<LOR	0.25	0.23	0.23	93	1	64	102	20
Azinphos methyl	<LOR	0.25	0.26	0.23	99	12	42	112	20
EP-068C : TRIAZINE PESTICIDES									
Simazine	<LOR	0.25	0.10	0.10	42	1	1	140	20
Atrazine	<LOR	0.25	0.15	0.16	61 *	3	65	109	20
EP-068D : SYNTHETIC PYRETHROIDS									
Cypermethrins	<LOR	0.25	0.24	0.23	94	3	63	119	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL

ALS EP-068 : PESTICIDES

QC LOT No. : OCOPS1445
MATRIX: Soil

ANALYST: K. HEGARTY

COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
	mg/kg	mg/kg	SCS Conc	DCS Conc	Average Rec.	RPD	Rec.		RPD
			mg/kg	mg/kg	%	%	Low	High	%
EP-068A : ORGANOCHLORINE PESTICIDES									
a-BHC	<LOR	0.25	0.18	0.17	70	4	61	109	20
HCB	<LOR	0.25	0.18	0.18	72	0	61	111	20
b- & g-BHC	<LOR	0.50	0.42	0.42	83	1	66	113	20
d-BHC	<LOR	0.25	0.18	0.17	70	4	63	108	20
Heptachlor	<LOR	0.25	0.19	0.18	73	3	67	102	20
Aldrin	<LOR	0.25	0.19	0.18	75	5	61	107	20
Heptachlor epoxide	<LOR	0.25	0.18	0.17	69	4	63	103	20
trans-Chlordane	<LOR	0.25	0.18	0.18	71	1	60	104	20
Endosulfan 1	<LOR	0.25	0.18	0.18	73	3	65	115	20
cis-Chlordane	<LOR	0.25	0.18	0.17	71	4	61	102	20
Dieldrin	<LOR	0.25	0.17	0.16	67	10	63	112	20
DDE	<LOR	0.25	0.18	0.18	73	3	66	104	20
Endrin	<LOR	0.25	0.18	0.18	70	0	1	150	20
Endosulfan 2	<LOR	0.25	0.18	0.18	71	2	71	108	20
DDD	<LOR	0.25	0.18	0.17	70	4	65	108	20
Endrin aldehyde	<LOR	0.25	0.21	0.22	86	2	47	125	20
Endosulfan sulfate	<LOR	0.25	0.18	0.17	71	4	63	109	20
DDT	<LOR	0.25	0.19	0.18	75	3	60	115	20
Endrin ketone	<LOR	0.25	0.18	0.18	71	2	42	140	20
Methoxychlor	<LOR	0.25	0.19	0.18	73	3	61	113	20
EP-068B : ORGANOPHOSPHORUS PESTICIDES									
Dichlorvos	<LOR	0.25	0.19	0.18	72	5	62	101	20
Demeton-s-methyl	<LOR	0.25	0.16	0.16	64	4	44	111	20
Monocrotophos	<LOR	0.25	0.15	0.13	56	13	36	117	20
Dimethoate	<LOR	0.25	0.20	0.18	75	9	62	110	20
Diazinon	<LOR	0.25	0.16	0.16	63	4	61	103	20
Chlorpyrifos methyl	<LOR	0.25	0.18	0.17	71	4	70	102	20
Parathion methyl	<LOR	0.25	0.17	0.16	66	10	60	105	20
Malathion	<LOR	0.25	0.18	0.17	70	5	62	107	20
Fenthion	<LOR	0.25	0.17	0.15	65	12	60	100	20
Chlorpyrifos	<LOR	0.25	0.18	0.17	70	3	70	106	20
Parathion	<LOR	0.25	0.18	0.17	71	4	48	118	20
Pirimiphos ethyl	<LOR	0.25	0.12	0.12	49 *	3	58	98	20
Chlorfenvinphos E	<LOR	0.25	N/A	N/A	N/A		--	--	
Chlorfenvinphos Z	<LOR	0.25	0.17	0.16	67	6	60	122	20
Bromophos ethyl	<LOR	0.25	0.18	0.18	72	4	66	104	20
Fenamiphos	<LOR	0.25	0.16	0.14	60	15	57	101	20
Prothiofos	<LOR	0.25	0.18	0.18	72	3	65	101	20
Ethion	<LOR	0.25	0.18	0.18	72	5	62	107	20
Carbofenthion	<LOR	0.25	0.18	0.17	71	6	64	102	20
Azinphos methyl	<LOR	0.25	0.18	0.14	64	19	42	112	20
EP-068C : TRIAZINE PESTICIDES									
Simazine	<LOR	0.25	0.14	0.14	56	4	1	140	20
Atrazine	<LOR	0.25	0.20	0.18	76	6	65	109	20
EP-068D : SYNTHETIC PYRETHROIDS									
Cypermethrins	<LOR	0.25	0.18	0.18	73	2	63	119	20

COMMENTS:

- 1) The control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) * : Recovery or RPD falls outside of the recommended control limits.

0128 

TO: GILBERT & SUTHERLAND PTY LTD

P O BOX 4115
ROBINA QLD 4230

ATTENTION: MR C BUTLER

SUBJECT: Analytical results.

BATCH: EB58436-0

DATE: 23/09/03

AUSTRALIAN LABORATORY SERVICES P/L
ABN: 84 009 936 029

BRISBANE	SYDNEY	MELBOURNE	NEWCASTLE	AUCKLAND
Tel: 61-7-3243 7222	Tel: 61-2-8784 8555	Tel: 61-3-9538 4444	Tel: 61-2-4968 9433	Tel: 64-9-379 9437
Fax: 61-7-3243 7218	Fax: 61-2-8784 8500	Fax: 61-3-9538 4400	Fax: 61-2-4968 0349	Fax: 64-9-379 1449



GILBERT & SUTHERLAND PTY LTD

Page-no: 3
 ENV BRISBANE
 Batch-no: 58436
 Sub-batch: 0
 No-samples: 42
 Received: 16/09/03
 Checked:

Attention: MR C BUTLER
 YourOrder: GJ0120
 SampleType: SOIL
 Project:

Method	Analysis description	Units	IOR	2/78-S51	2/78-S52	2/78-S53
EA-055	Moisture Content (dried @ 103° &		0.1	23.3	21.8	23.9
EG-005T	Arsenic - Total	mg/kg	1	24	71	41

AUSTRALIAN LABORATORY SERVICES P/L

ABN: 84 009 936 029

BRISBANE

Tel: 61-7-3243 7222

Fax: 61-7-3243 7218

SYDNEY

Tel: 61-2-8784 8555

Fax: 61-2-8784 8500

MELBOURNE

Tel: 61-3-9538 4444

Fax: 61-3-9538 4400

NEWCASTLE

Tel: 61-2-4968 9433

Fax: 61-2-4968 0349

AUCKLAND

Tel: 64-9-379 9437

Fax: 64-9-379 1449



GILBERT & SUTHERLAND PTY LTD

Attention: MR C BUTLER

YourOrder: GJ0128

SampleType:SOIL

Project:

Page-no: 4

ENV BRISBANE

Batch-no: 58436

Sub-batch:0

No-samples:42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	2/78-S54	2/78-S55	2/78-S56
EA-055	Moisture Content (dried @ 103° C)	%	0.1	23.1	25.4	20.2
EG-005T	Arsenic - Total	mg/kg	1	40	13	15

AUSTRALIAN LABORATORY SERVICES P/L

ABN: 84 009 936 029

BRISBANE

Tel: 61-7-3243 7222

Fax: 61-7-3243 7218

SYDNEY

Tel: 61-2-8784 8555

Fax: 61-2-8784 8500

MELBOURNE

Tel: 61-3-9538 4444

Fax: 61-3-9538 4400

NEWCASTLE

Tel: 61-2-4968 9433

Fax: 61-2-4968 0349

AUCKLAND

Tel: 64-9-379 9437

Fax: 64-9-379 1449



GILBERT & SUTHERLAND PTY LTD

Attention: MR C BUTLER
 YourOrder: GJ0128
 SampleType: SOIL
 Project:

Page-no: 5
 ENV BRISBANE
 Batch-no: 58436
 Sub-batch: 0
 No-samples: 42
 Received: 16/09/03
 Checked:

Method	Analysis description	Units	LOR	12/53-S109	12/53-S110	12/53-S111
EA-055	Moisture Content (dried @ 103' %		0.1	34.8	37.7	28.9
EG-005T	Arsenic - Total	mg/kg	1	9	81	27

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Attention: MR C BUTLER

YourOrder: GJ0128

SampleType: SOIL

Project:

Page-no: 6

ENV BRISBANE

Batch-no: 58436

Sub-batch: 0

No-samples: 42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	12/53-S112	12/53-S113	12/53-S114
EA-055	Moisture Content (dried @ 103' %		0.1	33.7	48.3	29.1
EG-005T	Arsenic - Total	mg/kg	1	5	6	51

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Attention: MR C BUTLER

YourOrder: GJ0128

SampleType:SOIL

Project:

Page-no: 7

ENV BRISBANE

Batch-no: 58436

Sub-batch:0

No-samples:42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	1/22-S41	1/22-S42	1/22-S43
EA-055	Moisture Content (dried @ 103' &		0.1	21.6	27.0	21.8
EG-005T	Arsenic - Total	mg/kg	1	16	20	20

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Attention: MR C BUTLER

YourOrder: GJ0128

SampleType:SOIL

Project:

Page-no: 8

ENV BRISBANE

Batch-no: 58436

Sub-batch:0

No-samples:42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	1/22-S44	1/96-s21	1/96-s22
EA-055	Moisture Content (dried @ 103' %		0.1	26.1	32.2	32.2
EG-005T	Arsenic - Total	mg/kg	1	3	11	39

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Attention: MR C DUTLER

YourOrder: GJ0128

SampleType:SOIL

Project:

Page-no: 9

ENV BRISBANE

Batch-no: 58436

Sub-batch:0

No-samples:42

Received: 16/09/03

Checked:

Method	Analysis description	Units	IOR	1/96-s23	1/96-s24	1/96-s25
EA-055	Moisture Content (dried @ 103' &		0.1	30.6	28.1	31.0
EG-005T	Arsenic - Total	mg/kg	1	59	4	27

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Attention: MR C BUTLER
 YourOrder: GJ0128
 SampleType:SOIL
 Project:

Page-no: 10
 ENV BRISBANE
 Batch-no: 58436
 Sub-batch:0
 No-samples:42
 Received: 16/09/03
 Checked:

Method	Analysis description	Units	IOR	1/96-s26	1/96-s27	1/96-s28
EA-055	Moisture Content (dried @ 103' %		0.1	36.7	25.7	33.0
EG-005T	Arsenic - Total	mg/kg	1	48	56	10

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GILBERT & SUTHERLAND PTY LTD

Attention: MR C BUTLER

YourOrder: GJ0128

SampleType:SOIL

Project:

Page-no: 11

ENV BRISBANE

Batch-no: 58436

Sub-batch:0

No-samples:42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	1/96-s29	1/96-s30	1/96-s31
EA-055	Moisture Content (dried @ 103' &		0.1	30.9	37.9	29.2
EG-005T	Arsenic - Total	mg/kg	1	37	49	19

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Page-no: 12
 ENV BRISBANE
 Batch-no: 58436
 Sub-batch: 0
 No-samples: 42
 Received: 16/09/03
 Checked:

Attention: MR C BUTLER
 YourOrder: GJ0128
 SampleType: SOIL
 Project:

Method	Analysis description	Units	LOR	1/96-s32	2/78-S5	2/78-S6
EA-055	Moisture Content (dried @ 103' &		0.1	32.8	30.0	28.1
EG-005T	Arsenic - Total	mg/kg	1	39	37	38

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GILBERT & SUTHERLAND PTY LTD

Attention: MR C BUTLER

YourOrder: GJ0128

SampleType: SOIL

Project:

Page-no: 13

ENV BRISBANE

Batch-no: 58436

Sub-batch: 0

No-samples: 42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	2/78-S7	2/78-S8	2/78-S9
EA-055	Moisture Content (dried @ 103° C)	%	0.1	28.3	29.9	31.6
EG-005T	Arsenic - Total	mg/kg	1	34	31	29

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GILBERT & SUTHERLAND PTY LTD

Attention: MR C BUTLER

YourOrder: GJ0128

SampleType:SOIL

Project:

Page-no: 14

ENV BRISBANE

Batch-no: 58436

Sub-batch:0

No-samples:42

Received: 16/09/03

Checked:

Method	Analysis description	Units	LOR	2/78-S10	2/78-S11	2/78-S12
EA-055	Moisture Content (dried @ 103° ±	%	0.1	31.7	26.7	27.1
EG-005T	Arsenic - Total	mg/kg	1	34	39	36

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ORGANICS QUALITY CONTROL REPORT

BATCH No. : EB56796

DATE BATCH RECEIVED : 16/07/03

CLIENT : Gilbert & Sutherland

DATE BATCH COMPLETED : 25/07/03

Where applicable, internal standards are added to sample extracts prior to instrumental analysis.

Absolute peak areas and retention times fall within the criteria specified in the individual methods.

Method Code	Test	Matrix	Method Reference		QC Lot Number	Date Samples Extracted	Date Samples Analysed
			Extraction	Analysis*			
EP-068	Pesticides	Soil	Tumbler	USEPA 8270B	OCOPS1401	21/07/03	22/07/03
					OCOPS1402	21/07/03	22/07/03
					OCOPS1403	21/07/03	22/07/03
					OCOPS1404	21/07/2003	23/07/2003